

CLAIMS

1. Glass of soda-lime type composition in which the traditional basic components are in the following proportions by weight:

SiO ₂	66 to 75%
Na ₂ O	10 to 20%
CaO	5 to 15%
MgO	0 to 5%
Al ₂ O ₃	0 to 5%
K ₂ O	0 to 5%

to these basic elements are added colouring elements which are present in the following proportions by weight:

Fe ₂ O ₃	1.1 to 1.5% (total iron in the composition)
Co	150 to 200 ppm
Cr ₂ O ₃	25 to 100 ppm
Se	10 to 50 ppm
MnO	less than 600 ppm
TiO ₂	less than 0.1%

the constituents of the composition, particularly the coloured elements, being selected in such proportions that the luminous transmittance at a thickness of 4 mm, TLA₄, is less than 20%, and the energetic transmittance, TE₄ (Moon), is less than 20%.

2. Glass composition in accordance with claim 1 in which the content by weight of Cr₂O₃ does not exceed 80 ppm.

3. Glass composition in accordance with claim 1 or claim 2 in which the cobalt content is comprised between 160 and 190 ppm.

4. Glass composition in accordance with any one of the above claims in which the selenium content does not exceed 40 ppm.

5. Glass composition in accordance with any one of the above claims in which the ratio of ferrous iron to total iron, representing the degree of oxidation of the composition, is such that:

$$0.20 < F^{2+} / \text{total Fe} < 0.26$$

6. Glass composition in accordance with any one of the above claims in which the content by weight of total iron does not exceed 1.35%.

7. Composition in accordance with any one of the above claims in which the ratio of ferrous iron to total iron is such that:

$$0.21 < \text{F}^{2+} / \text{total Fe} < 0.25$$

8. Glass composition in accordance with any one of the above claims in which the content of total iron is at least 1.2%.

9. Glass composition in accordance with any one of the above claims in which the colouring elements are selected such that the degree of colour excitation purity does not exceed 5.

10. Composition in accordance with any one of the above claims in which the colouring elements are selected in proportions such that the luminous transmittance at a thickness of 4 mm, TLA4, does not exceed 19%.

11. Composition in accordance with any one of the above claims in which the colouring elements are selected in proportions such that the selectivity $TL/TE > 1$.